- 11. A semiconductor processing chamber comprising:
  - a wall, a bottom and a lid assembly defining a chamber volume;
  - a substrate support disposed within the chamber volume; and,
- a chamber liner disposed in the chamber volume and circumscribing the substrate support, the chamber liner having a passage at least partially disposed in the chamber liner, the passage fluidly isolated from the chamber volume and having an inlet and outlet adapted to flow a fluid through the passage.
- 12. The chamber of claim 11 wherein the chamber liner further comprises at least one of:
  - a first liner disposed proximate the lid assembly; or
  - a second liner disposed about the substrate support.
- 13. The chamber of claim 11 wherein the chamber liner is retained in the chamber by a clamp affixed to the chamber.
- 14. The chamber of claim 11 wherein the chamber liner is comprised of a thermally conductive material.
- 15. The chamber of claim 11 wherein the chamber liner is comprised of a material selected from the group of aluminum, ceramic and stainless steel.
- 16. The apparatus of claim 12 wherein the second liner further comprises: a base having the passage disposed within; and an inner wall connected to the base.
- 17. The apparatus of claim 16 wherein the second liner further comprises: an outer wall connected to the base.
- 18. The apparatus of claim 16 wherein the second liner further comprises:

a first and second boss projecting from the base, the first boss comprising a hole in fluid communication with the passage at the inlet, and the second boss comprising a hole in fluid communication with the passage at the outlet.

- 19. The apparatus of claim 16 wherein inner wall further comprises a magnet disposed in the inner wall.
- 20. The apparatus of claim 17 wherein the outer wall further comprises a pumping port.
- 21. The apparatus of claim 12 wherein the first liner further comprises:
  - a center member having the passage disposed within;
  - a flange circumscribing the center member; and,
  - a cylindrical wall projecting from the center member inside of the flange.
- 22. The apparatus of claim 21 further comprising:
- a lid disposed opposite the cylindrical wall, the lid and the wall defining a plenum at least partially therebetween.
- 23. The apparatus of claim 22 wherein the center member further comprises: a plurality of nozzles disposed in the center member providing fluid access to the plenum.
- 24. The apparatus of claim 22 further comprising: a gas feedthrough fluidly coupled to the plenum through a hole disposed in the lid.
- 26. Apparatus for lining a semiconductor processing chamber comprising:
  a liner having a plurality of apertures formed at least partially therein;
  a lid having an inlet, the lid disposed proximate the liner and defining a plenum at least partially therebetween; and

- 27. The apparatus of claim 26, wherein the nozzle is comprised of quartz, silicon carbide, silicon, aluminum nitride, aluminum oxide or combinations thereof.
- 28. The apparatus of claim 26, wherein the liner further comprises: a channel having an inlet and an outlet disposed in the liner.
- 37. (Amended) The apparatus of claim [25] <u>26</u>, wherein the second side of the liner is textured.
  - 38. Apparatus for lining a process volume defined by sidewalls of a semiconductor processing chamber comprising:
    - a liner adapted to be removably disposed in the process volume; and
  - a passage at least partially formed in the liner isolated from the process volume and adapted to flow a heat transfer medium therethrough.
  - 39. The apparatus of claim 38, wherein the liner further comprises: a cylindrical wall.
  - 40. The apparatus of claim 39, wherein the passage is formed at least partially in the cylindrical wall.
  - 41. The apparatus of claim 39, wherein the liner further comprises: a bottom coupled to the cylindrical wall.
  - 42. The apparatus of claim 41, wherein the passage is formed at least partially in the bottom.
  - 43. The apparatus of claim 39, wherein the cylindrical wall is configured to line the sidewalls to the chamber.

- 44. The apparatus of claim 39, wherein the cylindrical wall is configured to line a substrate support disposed in the process volume of the chamber.
- 45. The apparatus of claim 38, wherein the liner further comprises:
  an outer cylindrical wall;
  an inner cylindrical wall; and
  a bottom coupled between the outer cylindrical wall and the inner cylindrical wall.
- 46. The apparatus of claim 45, wherein the passage is formed in at least partially in at least one of the inner cylindrical wall, outer cylindrical wall and the bottom.
- 47. A semiconductor processing chamber comprising:
  - a wall, a bottom and a lid assembly defining a chamber volume;
  - a substrate support disposed within the chamber volume; and,
- a chamber liner having at least a first portion disposed proximate the wall, the chamber liner having a passage fluidly isolated from the chamber volume at least partially formed in the chamber liner.
- 48. The chamber of claim 47, wherein the chamber liner further comprises: a second portion disposed proximate the lid assembly.
- 49. The chamber of claim 48, wherein the second portion of the chamber liner further comprises:
  - a plurality of apertures formed therethrough.
- 50. The chamber of claim 49 further comprising a plate disposed on the chamber liner and forming a plenum therewith, the plenum in fluid communication with the chamber volume through the apertures.
- 51. A semiconductor processing chamber comprising: